# **Bureau of Health Informatics MORTALITY (DEATH) INDICATORS**



The following mortality indicators are defined in this section:

- 1. Drug-Involved Deaths
  - a) Number of drug-involved deaths by residence
  - b) Number of drug-involved deaths by occurrence
  - c) Age-adjusted rate of drug-involved deaths by residence
- 2. Benzodiazepine-Involved Deaths
  - a) Number of benzodiazepine-involved deaths by residence
  - b) Number of benzodiazepine-involved deaths by occurrence
  - c) Age-adjusted rate of benzodiazepine-involved deaths by residence
- 3. Opioid-Involved Deaths
  - a) Number of opioid-involved deaths by residence
  - b) Number of opioid-involved deaths by occurrence
  - c) Age-adjusted rate of opioid-involved deaths by residence
- 4. Heroin-Involved Deaths
  - a) Number of heroin-involved deaths by residence
  - b) Number of heroin-involved deaths by occurrence
  - c) Age-adjusted rate of heroin-involved deaths by residence
- 5. Synthetic Opioid-Involved Deaths
  - a) Number of synthetic opioid-involved deaths by residence
  - b) Number of synthetic opioid-involved deaths by occurrence
  - c) Age-adjusted rate of synthetic opioid-involved deaths by residence
- 6. Stimulant-Involved Deaths
  - a) Number of stimulant-involved deaths by residence
  - b) Number of stimulant-involved deaths by occurrence
  - c) Age-adjusted rate of stimulant-involved deaths by residence

NB: Demographic breakdowns of age-adjusted rates are not available at this time. Only total population rates are included. Complex demographic breakdowns by parish are not available for quarterly count data.





Bureau of Hea	<u>ilth in</u>	<u>torm</u>	atics							Pu	ıblic Health				
Indicator gro	up		Drug-lı	nvolv	ed De	aths		-							
Indicator nar	nes		a. Num	ber c	of drug	g-involve	d dea	aths b	y resider	nce					
			b. Num	ber o	of dru	g-involve	ed de	aths b	y occurr	ence					
Indicator def	initio	n	Deaths	invo	lving o	drug poi	sonin	g (sor	netimes	called dr	ug overdose	) as <b>any</b>			
			underl	ying	cause	of deat	<b>h</b> . Dr	ugs ai	re define	d as any	medicine or	substance	that		
			have a	phys	iologi	cal effect	whe	n inge	ested, inje	ected, or	absorbed in	to the bod	y. This		
						-			-	•	-				
				,	•					<b>-</b> .	9				
				aths where drugs were involved but not listed as the primary cause of death (e.g. sitional asphyxiation, brain injury, cardiac arrest, etc.). Counted according to paristion, or state of decedent residence (by residence) or of death occurrence (by currence).  aths with the following ICD-10 codes in <b>any</b> cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  deaths occurring in the time period relevant to the measure (the past three nths for quarterly, the twelve months for annually)  hual count of deaths; Quarterly count of deaths  disiana Electronic Event Registration System (LEERS)											
				itional asphyxiation, brain injury, cardiac arrest, etc.). Counted according to parision, or state of decedent residence (by residence) or of death occurrence (by urrence).  Iths with the following ICD-10 codes in <b>any</b> cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  Ideaths occurring in the time period relevant to the measure (the past three in the for quarterly, the twelve months for annually)  Inual count of deaths; Quarterly count of deaths  Isiaina Electronic Event Registration System (LEERS)  Inual: calendar year (1 January – 31 December) based on date of death  Inual: 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – December based on date of death											
			_			decede	nt res	idenc	e (by resi	idence) o	r of death o	ccurrence (	by		
				ths with the following ICD-10 codes in <b>any</b> cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  leaths occurring in the time period relevant to the measure (the past three oths for quarterly, the twelve months for annually)											
Numerator			Deaths	with	the fo	ollowing	ICD-1	0 coc	des in <b>an</b> g	<b>y</b> cause c	of death field	l:			
				X4	0-X44	, X60-X6	4, X8	5, Y10	-Y14						
Denominator	r		All dea	·											
			month	s for (	quarte	erly, the t	welve	e mon	ths for a	nnually)					
Measures of			A	nnual count of deaths; Quarterly count of deaths											
Frequency			Annuai	·											
Data Resource	:e		Louisia	Louisiana Electronic Event Registration System (LEERS)											
Period for ca	se		Annual	: cale	ndar y	year (1 Ja	nuar	y – 31	Decemb	er) based	d on date of	death			
definition			Quarte	<u>r</u> : 1 Ja	anuary	/ – 31 Ma	arch,	1 Apri	l – 30 Jui	ne, 1 July	– 30 Septer	nber, 1 Oct	ober –		
			31 Dec	embe	er bas	ed on da	te of	death	l						
Geography/D	Demo	graph	nic Grou	p Vai	riatio	าร									
Race	Whit	te		Blac	:k		Oth	er		All Race	es	A ===			
Gender	М	F	Total	М	г	Total	М	г	Total	All	All	Age	Total		
	IVI	Г	TOtal	IVI	F	TOtal	IVI	F	Total	Males	Females	Groups			
Geography															
State	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√		
Region	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√		
Parish	√	$\checkmark$	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								√				
Limitations o	of		It is po	ssible	that	not all di	rug-ir	ivolve	d deaths	are mar	ked with a d	rug poison	ing ICD		
indicator					-	-					do not inclu				
						•				smaller t	han 5 are su	ppressed t	0		
			protect	conf	fidenti	ality of t	he re	cords.							
Limitations o	f data	<b>a</b>									one for a dea	ath, resultir	ng in it		
resource			not bei	ing m	arked	as a dru	ıg-inv	olved	death in	LEERS.					





Bureau of Hea	iitn int	orm	atics							Pul	olic Health		
Indicator gro	up		Drug-Ir	nvolv	ed De	eaths							
Indicator na	nes		Age-ad	ljuste	d rate	e of drug	-invo	lved	deaths by	residenc	e		
Indicator def	inition	1	Deaths underly have a indicate but ma deaths position	invo ying physion inco y be wher wher or st	causiologicludes preserve dru sphyxate o	drug poise of deat ical effect is legal an ent in the igs were i	soning h. Dr when d illic case nvolv ain in	g (so ugs a n ing it dru of a r ed b jury,	metimes are define ested, injags. Alcoh multi-drua ut not list cardiac a	called drud as any rected, or a color poison g poison as the crest, etc.)	ig overdose medicine or absorbed in ings are no ng. This indi primary cau . Counted a	substance to the bod t explicitly icator inclu use of deat ccording to	y. This included des h (e.g. o parish,
Numerator				with	the f	ollowing 4, X60-X6				<b>y</b> cause o	f death field	l:	
Denominato	r					ing in the erly, the t		•			measure (th	e past thre	e
			Annual of inter		ulatio	n estimat	e for	the c	demograp	ohic group	and state,	region, or	parish
Measures of Frequency					lence	of death	s (age	e-adji	usted – st	tandardize	ed to the 20	00 Standar	<sup>-</sup> d
Data Resourc	ce			Population)  Louisiana Electronic Event Registration System (LEERS)  U.S. Census Bureau Population Estimates (Vintage 2017)									
Period for ca	se		Annual	: cale	ndar	year (1 Ja	ınuar	y – 3	1 Decemb	per) based	l on date of	death	
Geography/I	Demog	raph	nic Grou	p Vai	riatio	ns							
Race Gender	White M	e F	Total	Blac M	k F	Total	Oth M	er F	Total	All Race All Males	s All Females	Age Groups	Total
Geography State Region Parish													√ √ √
Limitations of indicator	of		It is possible that not all drug-involved deaths are marked with a drug poisoning ICD code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction. Numbers smaller than 5 are suppressed to protect confidentiality of the records.										
Limitations or resource	of data		It is pos	ssible	that		sy an	d tox	cicology a		ne for a dea	ath, resultir	ng in it





Bureau of Hea	ith ini	orm	atics							Publ	ic Health		
Indicator gro	up	Ве	nzodiazep	ine-l	nvolve	ed Death	s						
Indicator nar	nes	a. b.	Number Number			•			•	residenc occurren			
Indicator		De	aths invol	ving	benzo	diazepin	e poi	sonin	g where	drug pois	soning was A	ALSO listed	l as any
definition		eto ino in be aco	c.), anxioly dicator inc any under nzodiazep cording to	tics (e ludes lying ine c paris	e.g. alp legal cause odes a sh, reg	orazolam and illici of deatl are found gion, or s	i, etc. t dru n field d in o	, and gs. De ds are other u	sedative eaths that excluded inderlyin	hypnotice t do not he d from the g cause c	vulsants (e.g. estaz nave a drug is indicator, of death field by residence	olam, etc.) poisoning even if ds. Counte	. This code
		+	currence (				^			C 1 11	<b>6</b> . 1.1		
Numerator		De	aths with		ollowii	ng ICD-1	0 co	de in <b>a</b>	<b>iny</b> cause	e of death	n field:		
		AN		more		ollowing -X64, X85			des in <b>an</b>	<b>y</b> cause o	of death field	d:	
Denominator	ſ		deaths od quarterly		_		•			he meası	ure (the past	three mo	nths
Measures of Frequency		An	nual coun	t of c	deaths	; Quartei	ly co	unt of	deaths				
Data Resourc	e	Lo	uisiana Ele	ectror	nic Eve	ent Regis	tratic	n Sys	tem (LEE	RS)			
Period for ca definition	se	Qι		nuar	y – 31	March, 1	l Apr				late of death September,		- 31
Geography/D	emog	rapł	nic Group	Vari	ations	5							
Race	White	-	•	Blac			Oth	er		All Race	es		
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Age Groups	Total
Geography													
State	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	√	√
Region	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	√	√
Parish	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	√	√
Limitations o indicator	f	co co co inv	de in the pmplication ded with a unts do no	orimans from different for the	iry cau m dru erent p llude c drugs	ise of de g addicti orimary o drug-invo were spe	ath fi ion, n ause olved ecified	eld. The or do of de death d in th	nese cou they incl ath code is where e death i	nts do no lude drug (e.g. hea benzodia record. N	ith a drug po ot include de g-involved d rt attack or ozepines may umbers sma	eaths due t eaths that brain injury y have bee	o were y). The n
Limitations o			s possible ing marke					_	•	t done fo	r a death, re	sulting in i	t not





Bureau of Hea	II (II II II II I	ormatics							Publ	ic Health		
Indicator gro	up	Benzodiazep	ine-lı	nvolv	ed Death:	S						
Indicator nar	nes	Age-adjusted	d rate	of b	enzodiaz	epine	-invo	lved deat	hs by res	idence		
Indicator definition  Numerator	illes	Deaths involunderlying cetc.), anxiolyindicator inclination any under benzodiazep according to occurrence (IDeaths with	ving I ause tics (e ludes lying ine co paris	oenzo of de e.g. al lega causo causo odes ch, rec	odiazepin ath. Benz prazolam I and illici e of death are found gion, or si nce).	e poi odiaz , etc.) t drug n fielc d in o tate c	soningepine (epine (), and (gs. De (ds are (ther to (f dec	g where ones included sedative eaths that excluded underlying tedent res	drug poise anticonverse to hypnotic do not held from this grause considence (land)	coning was A yulsants (e.g. es (e.g. estaz nave a drug es indicator, of death field by residence	. clonazepa olam, etc.) poisoning even if ds. Counted	am, . This code
			more )-X44	, X60	-X64, X85	, Y10	-Y14					
Denominato	r	All deaths or quarterly, the Annual popu	e twe Ilatio	lve m n esti	onths for mate for	annu the st	ually) tate, i	egion, or	parish o	f interest.		nths for
Measures of Frequency		Annual incide Population)	ence	of de	eaths (age	-adju	ısted	– standar	dized to	the 2000 Sta	andard	
Data Resourc	e	Louisiana Ele U.S. Census I			_		-					
Period for ca definition			S. Census Bureau Population Estimates (Vintage 2017)  S. Census Bureau Population Estimates (Vintage 2017)  S. Census Bureau Population Estimates (Vintage 2017)									
Race	<b>Demog</b> White	raphic Group	<b>Vari</b> a Blac		S	Oth	er		All Race		Age	
Gender	М	F Total	М	F	Total	М	F	Total	All Males	All Females	Groups	Total
Geography State Region Parish			Males Females									
Limitations of indicator  It is possible that not all drug-involved deaths are marked with a drug poisoning ICI code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug-involved deaths that v coded with a different primary cause of death code (e.g. heart attack or brain injury) counts do not include drug-involved deaths where benzodiazepines may have been involved, but no drugs were specified in the death record. Numbers smaller than 5 a suppressed to protect confidentiality of the records.									o were /). The n			
Limitations of data resource		It is possible being marke							t done fo	r a death, re	sulting in i	t not





Indicator grou	ıp	Opioid	d-Involve	ed De	aths								
Indicator nam	-					ed death	s by	reside	ence				
						ed death	-						
Indicator		Death	s involvii	ng op	oioid p	oisoning	g whe	ere dr	ug poisc	ning was	ALSO listed	d as any	
definition		underl	lying cau	ise of	deatl	h. Opioid	ls inc	lude r	natural a	nd semi-	synthetic op	oioids (e.g.	
		codeir	ne, morp	hine,	oxyco	odone, h	ydrod	codon	e, etc.), l	heroin, m	ethadone, a	ind other s	ynthetic
			_		-						legal and il	_	Deaths
							-		-		use of death		
											n other und	, ,	
						_	-		-	state of	decedent re	sidence (b	У
						currence							
Numerator		Death	s with th	e foll	owing	JICD-10	code	es in <b>a</b>	<b>ny</b> cause	e of deatl	n field:		
			T40.0	, T40	.1, T40	0.2, T40.3	3, or <sup>-</sup>	T40.4					
		AND c	ne or m	ore t	he fol	lowing I	CD-10	0 code	es in <b>any</b>	cause o	f death field	:	
			X40-	X44, )	x60-X	64, X85,	Y10-	Y14					
Denominator		All dea	aths occi	urrinc	in th	e time p	eriod	relev	ant to th	ne measu	re (the past	three mon	ths for
				_	-	nths for a							
Measures of		•		<b>.</b> .		- · · ·							
Frequency		Annua	il count (	of dea	aths; (	Quarterly	/ cou	nt of o	deaths;				
Data Resource	•	Louisia	ana Elect	ronic	Even	t Registr	ation	Syste	m (LEER	(S)			
Period for cas	e	Annua	ıl: calend	lar ye	ar (1 .	January -	- 31 [	Decen	nber) ba	sed on da	ate of death		
definition				-		•					eptember, 1		- 31
				•		of death	•			,	- p		
Geography/De	emod	raphic	Group V	/ariat	tions								
Race	Whi	-	•	Blac			Oth	er		All Race	25		
Gender										All	All	Age	Total
	М	F	Total	М	F	Total	М	F	Total	Males	Females	Groups	
Geography													
State	V	V	<b>√</b>	<b>√</b>	√	<b>√</b>	√	V	<b>√</b>	V	$\checkmark$	V	√
Region	√	√	√	√	√	√	√	√	√	√ ·	√	V	√
Parish	√	√	√	\ √	√	√	√ √	√	√	· √	√	\ \ \	$\checkmark$
Limitations of		It is no	nssible th	nat no	nt all d	drua-inv	olved	deatl	ns are m		th a drug po	-	D code
indicator		_				_					de deaths d	_	D code
			. ,								-involved de		were
					_				-	_	t attack or b		
		counts	do not	inclu	de drı	ug-involv	ved d	eaths	where c	pioids m	ay have bee	en involved	, but no
		drugs	were sp	ecifie	d in th	ne death	reco	rd. Nu	ımbers s	maller th	an 5 are sup	opressed to	)
		protec	t confid	ential	ity of	the reco	rds.						
Limitations of		It is po	ssible th	nat ar	n auto	psy and	toxic	ology	are not	done for	a death, res	sulting in it	not
data resource		being	marked	as a d	drug-i	involved	deat	h in Ll	EERS.			-	





Indicator grou	ıp	Opioi	d-Involve	d De	aths									
Indicator nam	_	Age-a	djusted i	ate c	of opi	oid-invol	ved c	leath	s by resid	dence				
Indicator		_	•								ALSO listed	d as any		
definition							-			_	synthetic op	-		
		codeir	ne, morp	hine,	oxyc	odone, h	ydrod	odoı	ne, etc.), l	neroin, m	ethadone, a	and other s	synthetic	
			_								legal and il	_		
							-		-		use of death			
											n other und	, ,		
						cording t currence	•		_	state of	decedent re	sidence (b	У	
Newsawataw										4 -   4	- £: -  - .			
Numerator		Death			•				<b>any</b> cause	е от аеаті	n tiela:			
						0.2, T40.3								
		AND				_			les in <b>any</b>	cause o	f death field	<b>:</b>		
						.64, X85,								
Denominator				_		-			vant to th	ne measu	re (the past	three mon	iths for	
		l -	•			nths for a		-		_				
				tion 6	estim	ate for th	ie dei	nogi	raphic gro	oup and	state, regior	n, or parish	of	
		intere	St.											
Measures of		Annua	ual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population);											
Frequency		,	siana Electronic Event Registration System (LEERS)											
Data Resource	•					_		-						
		U.S. C	. Census Bureau Population Estimates (Vintage 2017)											
Period for case definition	е	Annua	nnual: calendar year (1 January – 31 December) based on date of death											
Geography/De	emog	raphic	Group V	'ariat	ions		_					_		
Race	Whi	te		Blac	k		Oth	er		All Race	es	Age		
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Groups	Total	
Geography														
State													√	
Region													√	
Parish													√	
Limitations of		It is po	ossible th	at no	ot all	drug-inv	olved	deat	ths are m	arked wi	th a drug po	oisoning IC	D code	
indicator											de deaths d			
					_				-	_	-involved de			
						-				-	t attack or b			
						-				•	ay have bee an 5 are sup			
						the reco		u. IN	ullinels S	ilianei (II	מוו א מוב אמן	opiesseu li	J	
Limitations of								ology	v are not	done for	a death, res	sultina in it	t not	
data resource						involved				done for	a acati, res	January III II		
		9			9									





Indicator grou	D	Hero	in-Involv	ed De	eaths								
Indicator name	_		ber of he			ed death	ıs bv	reside	nce				
			ber of he				•						
Indicator										ning was	ALSO listed	as any un	derlying
definition		cause	e of deatl	า. Hei	roin is	an illicit	drug	. Deat	hs that o	do not ha	ve a drug po	oisoning co	ode in
		any u	ınderlyin	g cau	se of	death fie	lds ar	e exc	uded fro	m this in	dicator, eve	n if the her	oin
											ted accordin		١,
		_		e of o	deced	ent resid	ence	(by re	esidence)	or of de	ath occurrer	nce (by	
			rrence).										
Numerator		Deatl	hs with th	ne fol	lowing	g ICD-10	code	in <b>ar</b>	<b>y</b> cause	of death	field:		
			T40.	1									
		AND	one or n	nore t	he fo	llowing I	CD-10	ode	es in <b>any</b>	cause of	death field:		
			X40-	X44,	X60->	(64, X85,	Y10-	Y14					
Denominator		All de	eaths occ	urrin	g in th	ne time p	eriod	relev	ant to th	ie measui	re (the past t	three mont	hs for
			terly, the		_						•		
Measures of		Δ		- 6 -1 -	- 41	0			-1 41				
Frequency		Annu	ial count	or ae	eatns;	Quarteri	y cou	nt or o	aeatns				
Data Resource	ı	Louis	siana Elec	troni	c Ever	ıt Registı	ation	Syste	m (LEER	S)			
Period for case definition	9	Annu	<u>ıal</u> : calen	dar ye	ear (1	January ·	- 31 [	Decen	nber) bas	sed on da	ite of death		
Geography/De	emog	graphi	ic Group	Varia	ations	;							
Race	Wh	nite		Blac	ck		Oth	er		All Race	es	A	
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Age Groups	Total
Geography													
State	√	$\checkmark$	√	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√	$\checkmark$	$\checkmark$	√
Region	√	√	$\checkmark$	√	√	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	$\checkmark$	√
Parish	√	$\checkmark$	√	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	√	√
Limitations of	1	It is p	ossible t	hat n	ot all	drug-inv	olved	deat	ns are m	arked wit	h a drug po	isoning ICI	) code
indicator		in the	e primary	caus	e of c	leath fiel	d. The	ese co	unts do	not inclu	de deaths di	ue to	
					_				•	_	involved de		
					-	-				_	t attack or b		
						_					y have been		
		_	s were sp dentiality				reco	ra. Nu	ımbers s	maller th	an 5 are sup	pressea to	protect
Limitations of										done for	a death, res	ulting in it	not
data resource		being	narked	as a	drua-	involved	deat	h in Ll	EERS.				





Bureau of Healt		Offila	ucs							Publi	c Health		
Indicator grou	р	Heroi	n-Involve	ed De	aths								
Indicator name	es	Age-a	adjusted	rate o	of her	oin-invol	ved d	eath:	s by resic	lence			
Indicator definition		cause any u code region occur	of death nderlying is found n, or stat rence).	n. Her g caus in otl se of c	oin is se of ner ur deced	an illicit death fie nderlying ent resid	drug. lds ar cause ence	Deate exceed of contractions of the contraction of	ths that c luded fro leath fiel esidence)	lo not ha om this in ds. Count or of dea	ALSO listed we a drug po dicator, evel ed accordin ath occurrer	oisoning co n if the her g to parish	ode in oin
Numerator			T40. <sup>-</sup> one or m	1 nore t	he fo	_	CD-10	cod		of death cause of	field: death field:		
Denominator		quart	erly, the al popula	twelv	e mo	nths for a	annua	lly)			e (the past t		
Measures of Frequency		Annu	al incide	nce o	f deat	ths (age-	adjust	ed –	standard	lized to th	ne 2000 Star	ndard Popu	ulation);
Data Resource	1					nt Registr Ilation Es		•					
Period for case definition	9	<u>Annu</u>	<u>al</u> : calend	dar ye	ar (1	January -	- 31 C	ecen	nber) bas	sed on da	te of death		
Geography/De	emog	<b>jraphi</b>	c Group	Varia	tions	5							
Race Gender	Wh M	ite F	Total	Blac M	k F	Total	Othe M	er F	Total	All Race All Males	All Females	Age Groups	Total
Geography State Region Parish													√ √ √
Limitations of indicator		in the comp coded count drugs	primary lications d with a d s do not	from differe inclu ecifie	e of d drug ent pr de dr d in t	leath field addictio rimary ca rug-invol <sup>t</sup> he death	d. The n, nor use of ved de	se co do t dea eaths	ounts do hey inclu th code ( where h	not includ de drug- e.g. heart eroin ma	h a drug poi de deaths du involved de attack or b y have been an 5 are sup	ue to aths that w rain injury) involved, l	vere . The but no
Limitations of data resource		•				opsy and involved		٠,		done for	a death, res	ulting in it	not





Indicator grou	р	Synth	netic Opi	oid-Ir	nvolve	d Deaths	5						
Indicator name	es	Num	ber of sy	nthet	ic opi	oid-invol	ved o	deaths	by resid	lence			
		Num	ber of sy	nthet	ic opi	oid-invol	ved o	deaths	by occu	rrence			
Indicator				,		•	•	_		<b>.</b>	oning was A		•
definition			, ,			,		•			ion drugs sı		
			•				•	_			tanil, furany	•	
		-	-					_		_	. Deaths tha		ave a
		_	•	_		-	-	-			re excluded		-41-
					•	•					nderlying ca ent residence		
			ath occu		-			gion,	Or state (	Ji decede	int residence	e (by reside	erice) or
Numerator								n in ar	W CALICA	of death	field:		
Numerator		Deati	T40.		IOWIT	g 1CD-10	code	ill <b>ai</b>	iy cause	or death	ileiu.		
		AND	one or n	nore 1	the fo	llowing I	CD-1	0 cod	es in <b>any</b>	cause of	death field:		
						(64, X85,			,				
Denominator		All de							ant to th	e measur	e (the past	three mont	ths for
			erly, the		-						o (and past		
Measures of		•											
Frequency		Annu	al count	of de	eaths;	Quarterly	v cou	nt of o	deaths;				
					·	`	,		,				
Data Resource	)	Louis	ouisiana Electronic Event Registration System (LEERS)										
Period for case	e	<u>Annu</u>	ual: calendar year (1 January – 31 December) based on date of death rter: 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 31										
definition				-			•	– 30 J	une, 1 Ju	ıly – 30 S	eptember, 1	October –	31
		Dece	mber ba	sed o	n date	e of deat	h						
Geography/De	emog	graphi	c Group	Varia	ations	;							
Race	Wh	iite		Blac	ck		Oth	er		All Race	es	Age	
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Groups	Total
Geography													
State	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√
Region	√	√	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√
Parish	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√
Limitations of		It is p	ossible t	hat n	ot all	drug-inv	olvec	l deat	hs are m	arked wit	h a drug po	isoning ICI	O code
indicator											de deaths d		
		-			_				-	_	involved de		
						-				_	attack or b		
						_				*	opioids may		
			vea, but ressed to		_	•				ecora. Nu	mbers small	ier than 5 a	are
Limitations of							<u> </u>			done for	a death, res	ulting in it	not
data resource			g marked							aone ioi	a ucatii, 165	aiting in it	1101
		20110	,ar Kea	45 U	۵. ug		4546						





		formatics					Public	Health		1			
Indicator grou	_	Synthetic Opio	oid-Involve	ed Deaths	5								
Indicator name	es	Age-adjusted	rate of syr	nthetic op	oioid-involv	ed death	ns by resic	lence					
Indicator definition		Deaths involvi underlying cau and fentanyl, a acrylfentanyl, d drug poisonin indicator, ever fields. Counted of death occur	use of dea and also ill etc. This ir g code in n if the syr d accordin	th. Syntholicit fental dicator in any unde othetic op og to paris	etic opioids nyl analogu ncludes leg rlying caus ioid code i sh, region,	s include ues such al and ill e of dea s found i	prescripti as carfent icit drugs. th fields a n other ui	on drugs su anil, furany Deaths tha re excluded nderlying ca	uch as tram I fentanyl, a t do not ha from this ause of dea	nadol and ave a ath			
Numerator		Deaths with th T40.4 AND one or m X40-	1	ollowing I	CD-10 cod								
Denominator		All deaths occ quarterly, the Annual popula interest.	twelve mo	onths for a	annually)			•					
Measures of Frequency		Annual incider	Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Pop Louisiana Electronic Event Registration System (LEERS)										
Data Resource	1	Louisiana Elec U.S. Census Bu		_	•								
Period for case definition	e	Annual: calend	dar year (1	January -	- 31 Decen	nber) bas	sed on dat	e of death					
Geography/De	emog	graphic Group	Variation	S									
Race Gender	Wh M	ite F Total	Black M F	Total	Other M F	Total	All Race All Males	s All Females	Age Groups	Total			
Geography State Region Parish										√ √ √			
Limitations of indicator		It is possible that not all drug-involved deaths are marked with a drug poisoning ICD code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug-involved deaths that were coded with a different primary cause of death code (e.g. heart attack or brain injury). The counts do not include drug-involved deaths where synthetic opioids may have been involved, but no drugs were specified in the death record. Numbers smaller than 5 are suppressed to protect confidentiality of the records.											
Limitations of data resource		It is possible the being marked					done for a	death, res	ulting in it	not			





Indicator gro	up	Sti	mulant-In	volve	d Dea	ths							
Indicator nar		a.	Number				ed de	eaths k	ov reside	nce			
		b.	Number						•				
Indicator		De	aths invol	ving	stimul	ant pois	oning	wher	e drug p	oisoning	was ALSO li	sted as any	/
definition			, ,								ints with abu	•	
			_	•				-			ne. This indi		
		_	•		_					<b>.</b>	ning code in f stimulant c	•	, ,
											to parish, r		
				•	_					_	y occurrence	•	
Numerator		+	aths with								•		
			T40	).5, T4	43.6								
		A١	ID one or	more	the fo	ollowing	ICD-	10 cod	des in <b>an</b>	<b>y</b> cause o	of death field	d:	
			X40	)-X44	l, X60-	X64, X85	5, Y10	-Y14					
Denominato	r	All	deaths o	curri	ng in t	the time	perio	d rele	vant to t	he measi	ure (the past	three mor	nths
		for	quarterly	, the	twelve	months	for a	nnual	ly)				
Measures of Frequency		An	nual coun	t of c	leaths	; Quartei	ly co	unt of	deaths				
Data Resource	e	Lo	uisiana Ele	ana Electronic Event Registration System (LEERS)									
Period for ca	se	<u>An</u>	<u>nual</u> : cale	: calendar year (1 January – 31 December) based on date of death									
definition					•		•	il – 30	June, 1	luly – 30	September,	1 October	– 31
			<u>arter</u> : 1 January – 31 March, 1 April – 30 June, 1 July – 30 September, 1 October – 3 cember based on date of death										
Geography/I		-	nic Group	1		3	1			1		Ī	1
Race	White	9		Blac	ck		Oth	er		All Race		Age	
Gender	М	F	Total	М	F	Total	М	F	Total	All Males	All Females	Groups	Total
Geography													
State	√	$\checkmark$	$\checkmark$	√	√	$\checkmark$	√	$\checkmark$	$\checkmark$	√	$\checkmark$	√	√
Region	√	$\checkmark$	$\checkmark$	√	√	√	√	√	$\checkmark$	√	$\checkmark$	√	√
Parish	√	√	√	√	√	√	√	√	√	√	√	√	√
Limitations o	of		•			_					ith a drug po	_	
indicator					•						ot include de		
			•			_			-	-	g-involved d rt attack or l		
						•					ts may have		
						_					maller than 5		
		_	protect co			•							
Limitations o			•					_	-	t done fo	r a death, re	sulting in i	t not
data resource	е	be	ing marke	d as	a drug	-involve	d dea	ath in	LEERS.				





Geography State Region  M F Total M F Total M F Total M F Total Males Females  Groups  Groups  Groups	Bureau of Healt		1							Publ	ic Health		
Indicator definition  Deaths involving stimulant poisoning where drug poisoning was ALSO listed as any underlying cause of death. Stimulants include psychostimulants with abuse potential (including amphetamines and methamphetamine) and cocaine. This indicator includes legal and illicit drugs. Deaths that do not have a drug poisoning code in any underlying cause of death fields are excluded from this indicator, even if stimulant codes are found in other underlying cause of death fields. Counted according to parish, region, or state of decedent residence (by residence) or of death occurrence (by occurrence).  Numerator  Deaths with the following ICD-10 code in any cause of death field:	Indicator group	)	Stimulan <sup>-</sup>	t-Invol	ed D	eaths							
definition  underlying cause of death. Stimulants include psychostimulants with abuse potential (including amphetamines and methamphetamine) and cocaine. This indicator includes legal and illicit drugs. Deaths that do not have a drug poisoning code in any underlying cause of death fields are excluded from this indicator, even if stimulant codes are found in other underlying cause of death fields. Counted according to parish, region, or state of decedent residence (by residence) or of death occurrence (by occurrence).  Numerator  Deaths with the following ICD-10 code in any cause of death field:  T40.5, T43.6  AND one or more the following ICD-10 codes in any cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  Denominator  All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually)  Annual population estimate for the state, region, or parish of interest.  Measures of Frequency  Population)  Data Resource  Louisiana Electronic Event Registration System (LEERS)  U.S. Census Bureau Population Estimates (Vintage 2017)  Period for case definition  Geography/Demographic Group Variations  Race  White  Black  Other  All Races  All All All All All Males Females  Geography  State  Region  V. Males Females  Other  All Races  Age Groups  Total  Geography  State  Region	Indicator name	5	Age-adju	ısted ra	te of	stimulant-	involv	ed de	eaths by	residence	)		
T40.5, T43.6  AND one or more the following ICD-10 codes in any cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  Denominator  All deaths occurring in the time period relevant to the measure (the past three months frequencyly, the twelve months for annually)  Annual population estimate for the state, region, or parish of interest.  Measures of Frequency  Population)  Data Resource  Louisiana Electronic Event Registration System (LEERS)  U.S. Census Bureau Population Estimates (Vintage 2017)  Period for case definition  Annual: calendar year (1 January – 31 December) based on date of death  Geography/Demographic Group Variations  Race  White  Black  Other  All Races  All All  Males Females  Groups  Total  Geography  State  Region			underlyir (including legal and cause of in other u	ng caus g amph I illicit c death f underly	e of d letam lrugs. lelds a ing ca	eath. Stim ines and m Deaths tha are exclude ause of dea	ulants nethar at do ed fro ath fie	inclumphe not h m thi	ude psych tamine) a ave a dru s indicate Counted a	nostimula and cocai ug poisor or, even i according	nts with abune. This indining code in fatimulant of to parish, r	use potenticator incluance any under codes are fegion, or s	al des lying ound
AND one or more the following ICD-10 codes in any cause of death field:  X40-X44, X60-X64, X85, Y10-Y14  Denominator  All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually)  Annual population estimate for the state, region, or parish of interest.  Measures of Frequency  Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population)  Data Resource  Louisiana Electronic Event Registration System (LEERS)  U.S. Census Bureau Population Estimates (Vintage 2017)  Period for case definition  Annual: calendar year (1 January – 31 December) based on date of death  Geography/Demographic Group Variations  Race  White Black Other All Races All All All Males Females  Geography  State Region  V  Region	Numerator		Deaths w			ving ICD-1	0 cod	le in <b>a</b>	any cause	e of death	n field:		
X40-X44, X60-X64, X85, Y10-Y14				T40.5,	T43.6								
All deaths occurring in the time period relevant to the measure (the past three months for quarterly, the twelve months for annually)  Annual population estimate for the state, region, or parish of interest.  Measures of Frequency  Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population)  Data Resource  Louisiana Electronic Event Registration System (LEERS)  U.S. Census Bureau Population Estimates (Vintage 2017)  Period for case definition  Annual: calendar year (1 January – 31 December) based on date of death  Geography/Demographic Group Variations  Race White Black Other All Races All All All Males Females  Geography  Geography  State Region  Age Groups  Total  Region			AND one	or mo	re the	following	ICD-	10 co	des in <b>an</b>	<b>y</b> cause o	of death field	d:	
quarterly, the twelve months for annually) Annual population estimate for the state, region, or parish of interest.  Measures of Frequency Population  Louisiana Electronic Event Registration System (LEERS) U.S. Census Bureau Population Estimates (Vintage 2017)  Period for case definition  Annual: calendar year (1 January – 31 December) based on date of death  Geography/Demographic Group Variations Race Gender  M F Total M				X40-X	14, X6	0-X64, X85	5, Y10	-Y14					
Measures of Frequency       Annual incidence of deaths (age-adjusted – standardized to the 2000 Standard Population)         Data Resource       Louisiana Electronic Event Registration System (LEERS)         U.S. Census Bureau Population Estimates (Vintage 2017)         Period for case definition       Annual: calendar year (1 January – 31 December) based on date of death         Geography/Demographic Group Variations       Race       White       Black       Other       All Races       Age Groups       Total         M       F       Total       M       F       Total       M       F       Total         Geography       State       V       V       V         Region       V       V       V	Denominator		quarterly	, the tw	elve r	months for	annu	ıally)				three mo	nths for
Frequency       Population)         Data Resource       Louisiana Electronic Event Registration System (LEERS)         U.S. Census Bureau Population Estimates (Vintage 2017)         Period for case definition       Annual: calendar year (1 January − 31 December) based on date of death         Geography/Demographic Group Variations         Race Gender       White       Black       Other       All Races       Age Groups       Total Males       Females       Total Males       Females       Total Males       V         State Region       Total Males       Total Ma									_				
Data Resource   Louisiana Electronic Event Registration System (LEERS)   U.S. Census Bureau Population Estimates (Vintage 2017)    Period for case definition   Annual: calendar year (1 January – 31 December) based on date of death   Geography/Demographic Group Variations   Race   White   Black   Other   All Races   All All   All   Males   Females   Total					e of d	leaths (age	e-adju	sted	– standaı	dized to	the 2000 Sta	andard	
U.S. Census Bureau Population Estimates (Vintage 2017)   Period for case definition										D.C.)			
Period for case definition  Annual: calendar year (1 January – 31 December) based on date of death  Geography/Demographic Group Variations Race White Black Other All Races Age Groups  M F Total M F Total M F Total M F Total Males Females  Geography State Region	Data Resource					_		-					
Annual: calendar year (1 January – 31 December) based on date of death			U.S. Cens	sus Bur	eau Po	opulation I	stima	ites (	Vintage ∠	2017)			
Race Gender       White Males       Black Males       Other Males       All Races All All All Males Females       Age Groups       Total Males Females         Geography State Region       Image: Company Males M			Annual: c	<u> </u>									
Geography State Region  M F Total M F F F F F F F F F F F F F F F F F F	Geography/De	nog	raphic Gro	oup Va	riatio	ns	•						
Geography State Region  M F Total M F Total M F Total M F Total M All Males Females  All All Males Females  Groups  Iotal M F Total M F Total M F Total Males Females  All All Males Females  All All Males Females  V	Race V	/hite	<u>)</u>	BI	ack		Oth	er		All Race	es	Age	
State   V   V   V   V   V   V   V   V   V	Gender	l	F Total	І М	F	Total	М	F	Total			_	Total
Region $\sqrt{}$	Geography												
	State												√
Parish 2/	Region												√
Falisii	Parish												√
Limitations of It is possible that not all drug-involved deaths are marked with a drug poisoning ICD						_					٥,		
	indicator			•	-								
coded with a different primary cause of death code (e.g. heart attack or brain injury). The counts do not include drug-involved deaths where stimulants may have been involved,			coded wi counts do but no di	code in the primary cause of death field. These counts do not include deaths due to complications from drug addiction, nor do they include drug-involved deaths that were coded with a different primary cause of death code (e.g. heart attack or brain injury). The counts do not include drug-involved deaths where stimulants may have been involved, but no drugs were specified in the death record. Numbers smaller than 5 are suppressed to protect confidentiality of the records.									
<b>Limitations of data resource</b> It is possible that an autopsy and toxicology are not done for a death, resulting in it not being marked as a drug-involved death in LEERS.								_	•	t done fo	r a death, re	sulting in i	t not